



5600 B STREET, SUITE 100, ANCHORAGE, ALASKA 99518-1641  
(907) 562-3366 FAX: (907) 562-1297

May 27, 1992

Mr. Bob Strong  
Alaska Marine Lines  
18000 Pacific Highway South, Suite 800  
Seattle WA 98188

Re: Summary of 3rd Quarterly Groundwater Sample Results  
7100 Second Avenue & 5615 West Marginal Way  
Seattle, Washington

Dear Bob:

The analytical data from the 3rd quarter groundwater sampling event at the 7100 Second Avenue and 5615 West Marginal Way sites are provided in Dames & Moore reports dated May 15, 1992. This letter summarizes our preliminary evaluation of the data collected at both sites during the first three quarterly sampling events.

#### **5615 West Marginal Way SW**

*Total petroleum hydrocarbon (TPH) concentrations.* Unlike previous analytical results which indicated groundwater TPH concentrations were below detection limits in all of the wells, low levels of TPH were identified in monitoring wells MW-3 and MW-4. The analytical laboratory has indicated that the hydrocarbons detected in MW-3 do not appear to be diesel or gasoline. At this time, we assume the presence of hydrocarbons in MW-3 to be anomalous and of relatively minor concern. They may, however, indicate a potential contaminant (such as oil) not associated with the USTs. The 4th quarter sample results will be used to assess this possibility. The TPH identified in well MW-4 indicate the presence of low levels of diesel in the groundwater near the former UST locations. Because the groundwater BETX concentrations did not show a corresponding increase, we assume that this low level of TPH is within the range of normal concentration fluctuations and does not signify increasing fuel concentrations in the groundwater.

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*Benzene concentrations.* Similar to the results obtained from previous sampling events, benzene has been identified only in monitoring well MW-4 which is located immediately adjacent to, and downgradient, of the former UST locations. Benzene has not been detected in either of the three other downgradient wells (MW-1, MW-2, and MW-3) nor in the upgradient well (MW-5). The benzene concentration in the 3rd quarter sample from MW-4 is within the range of benzene concentrations previously identified for this well.

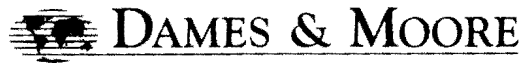
*Other gasoline constituents.* As shown in previous analytical results, toluene, ethylbenzene, and xylenes have not been detected in any of the monitoring wells during any of the sampling events.

*Current site status.* Based on the available data, our preliminary assessment concerning site conditions include the following:

- Although benzene is present in the area immediately downgradient of the former UST locations, the areal extent of groundwater which exceeds groundwater cleanup criteria does not appear to be increasing. The 4th quarter data will be used to evaluate potential concerns in the area of monitoring well MW-3.
- Benzene does not appear to be migrating offsite.

#### 7100 Second Avenue

*Total petroleum hydrocarbon (TPH) concentrations.* Unlike previous analytical data in which TPH was present in concentrations below the state regulatory criteria in several wells, monitoring well MW-6 contained 4.2 mg/L TPH and well MW-7 contained 6.6 mg/L TPH. The significance of these results is presently unclear because the chemical laboratory indicates that the TPH does not appear to be diesel or gasoline. Because there has been not been a corresponding increase in groundwater BETX concentrations, we assume that the TPH concentrations in these wells are anomalous and



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of relatively small concern. The results from the 4th quarter sampling event will be used to further evaluate this concern.

*Benzene concentrations.* The benzene concentrations that were obtained during this sampling event are within the range of benzene concentrations that have been obtained during previous sampling events. Benzene was not identified in any wells where it has not been previously detected.

*Other gasoline constituents.* The ethylbenzene, toluene, and xylene concentrations that were obtained during this sampling event are within the ranges that have been obtained previously, and they were not identified in any wells where they have not been previously detected.

*Current site status.* Based on the available data, our preliminary assessment of site include:

- The area with groundwater benzene concentrations above the regulatory cleanup criteria does not appear to be increasing.
- Benzene or other petroleum hydrocarbons do not appear to be discharging into the Duwamish Waterway.

If you have any questions concerning our findings or activities for this project, please do not hesitate to call.

Sincerely,

Dames & Moore

A handwritten signature in cursive script that reads "Susan C. Kent".

Susan C. Kent

Project Manager

cc: Bill Troy